## **LMA District Cover Sheet**

**Spring 2019 Levee Inspection Results** 

## **Sutter Maintenance Yard Hamilton Bend**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated				lual maintenance
FALL INSPECTIONS: The overall maintena within the attached un			ation and maintenance de ended to be an indiction	
Comments				

#### **Unit Cover Sheet**

**Spring 2019 Levee Inspection Results** 

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River Hamilton Bend	Right	3.39

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2019 - 4/4/2019			
DWR Inspector	Sterling York			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start		Rating **	Α	Issue No.		7	
LIVI Start							
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Operation	s & Maintena	nce		0		
item	Manuals				0		
DWR ID	DWR_ST0	005_01_s _ 201	3_7				
		Comn	nent Cod	de			
Inspector Comment							
O&M manual is located at the Sutter Maintenance Yard.							

No Photos

Issue No. Rating \*\* LM Start Α 8 Location \* Issue Type + Ма LM End Earthen Levee GPS Latitude/Longitude Category **Emergency Supplies &** Item Equipment DWR ID DWR\_ST0005\_01\_s \_ 2013\_8 Comment Code

No Photos

Inspector Comment

Emergency supplies and equipment are stored at the Sutter Maintenance Yard.

LM Start		Rating **	Α	Issue No.		9		
LM End		Issue Type +	Ма	Location *				
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Calegory				Start		End		
Item	Flood Preparedness & Training				0		0	
пеш			0		0			
DWR ID	DWR_ST0	005_01_s _ 201	3_9					
	Comment Code							
	Inspector Comment							

No Photos

Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspectors.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		3
LM End	1.37	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetation			39.4396	71 °	39.457917°
item			-121.6414	10°	-121.638319 °	
DWR ID	DWR_ST0005_01_s _ 2019_3					

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

From levee mile 0.00 to levee mile 1.37 the annual vegetation is well maintained, Spring 2019.

## Photo 1 of 1 : SP\_2019\_ST0005\_289\_3\_20190409\_00016.jpg



View looking upstream landside from levee mile 0.00 to levee mile 1.37 where annual vegetation is well maintained, Spring 2019.

LM Start	0.00	Rating **	Α	Issue No.		5
LM End	1.37	Issue Type +	Ma	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetation			39.4396	71 °	39.457917°
item			-121.6414	10°	-121.638319°	
DWR ID	DWR_ST0005_01_s _ 2019_5					

#### Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

From levee mile 0.00 to levee mile 1.37 the annual vegetation is well maintained, Spring 2019.

#### Photo 1 of 1: SP\_2019\_ST0005\_289\_5\_20190409\_00015.jpg



View looking upstream waterside from levee mile 0.00 to levee mile 1.37 where annual vegetation is well maintained, Spring 2019.

LM Start	0.19	Rating **	M	Issue No.		15	
LM End	0.19	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory	Category			Start		End	
Item	Vegetation			39.4424	35°	39.442435	0
пеш				-121.6417	60°	-121.641760	0
DWR ID DWR_ST0005_01_s _ 2015_15							
Common and Condo							

#### Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

#### Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	0.70	Rating **	М	Issue No.		16
LM End	0.70	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS La	atitud	e/Longitude
Category			Start		End	
Item	Vegetatio	n		39.4496	23°	39.449623°
Item				-121.640940 °		-121.640940 °
DWR ID	DWR_ST0	005_01_s _ 201	7_16			
		Comn	nent Cod	le		
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	bility.
		Inspecto	or Comm	nent		

No Photos

LM Start	0.73	Rating ** A		Issue No.		14		
LM End	0.91	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Trim / Thi	n Trees		39.45010	9°	39.452643 °		
пеш			-121.64085	1°	-121.640316 °			
DWR ID	WR ID DWR_ST0005_01_s _ 2016_14							

#### Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Small trees 4" in diameter at chest height have been sprayed and should be removed, Fall 2018.

#### Photo 1 of 1: SP\_2019\_ST0005\_289\_14\_20190305\_00005.jpg



View looking upstream waterside of trees. Small trees 4" in diameter at chest height have been sprayed and should be removed, Spring 2018.

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

## Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	1.48	Rating **	U	Issue No.		18	
LM End	1.99	Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS La	titud	le/Longitude	
Category			Start		End		
Item	Trim / Thin Trees			39.4580	53°	39.461949 °	
пеш			-121.63630	00°	-121.629563 °		
DWR ID	WR ID DWR_ST0005_01_s _ 2017_18						

#### Comment Code

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Trim/Thin Trees from Levee Mile 1.48 to 1.99. The LMA does not maintain the levee from Levee Mile 1.38 to 3.39.



View looking upstream of thick trees and vegetation blocking visibility on waterside, looking downstream. Spring 2018.

LM Start	1.48	Rating **	U	Issue No.		11		
LM End	3.25	Issue Type +	Ma	Location *	LS			
Cotogon Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Trim / Thin Trees			39.4580	55°	39.470312 °		
пеш				-121.6363	00°	-121.609242 °		
DWR ID	WR ID DWR_ST0005_01_s _ 2017_11							

#### Comment Code

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Trim/Thin Trees from Levee Mile 1.48 to 3.25. The LMA does not maintain the levee from Levee Mile 1.38 to 3.39.

#### Photo 1 of 1: SP\_2019\_ST0005\_289\_11\_20190305\_00004.jpg



View looking upstream landside and waterside of thick trees blocking visibility on landside, Fall 2018.

## **Levee Inspection Report By Mile - Spring 2019**

## Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	1.50	Rating **	U	Issue No.		Issue No.		17
LM End	1.96 Issue Type + Ma Location *		Issue Type + Ma		WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory						End		
Item	Vegetatio	n		39.4581	31 °	39.461634 °		
item			-121.6359	16°	-121.629926 °			
DWR ID DWR_ST0005_01_f _ 2017_17								

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Maintain annual grasses from Levee Mile 1.50 to 1.96. The LMA does not maintain the levee from Levee Mile 1.38 to 3.39.

# Photo 1 of 1: SP\_2019\_ST0005\_289\_17\_20190305\_00006.jpg



View looking upstream waterside of annual grasses that need to be maintained, Spring 2018.

LM Start	1.50	Rating **	U	Issue No.	0. 6		
LM End	2.63	Issue Type +	Ма	Location *		LS	
Category Earthen Levee				GPS La	atitud	le/Longitude	
				Start		End	
Item	Vegetatio	n		39.4581	32 °	39.466025°	
пеш				-121.6359	14 °	-121.618972°	
DWR ID	DWR ST0005 01 f 2016 6						

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Blackberries covering slope from Levee Mile 1.50 to 2.63. The LMA does not maintain the levee from Levee Mile 1.38 to 3.39.

## Photo 1 of 1: SP 2019 ST0005 289 6 20190305 00002.jpg



View looking upstream landside of blackberries that are covering the landside slope, Spring 2018.

LM Start	2.46	Rating **	U	Issue No.		10
LM End	2.48	Issue Type +	Ma	Location *		LS
Category	Category Earthen Levee			GPS Latitude/Longitude		
Calegory	Calegory			Start		End
Item	Vegetatio	n		39.4653	70°	39.465410 °
nem			-121.6220	74°	-121.621736 °	
DWR ID	DWR_ST0	005_01_f _ 2016	6_10			

#### V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Comment Code

Blackberries covering slope from Levee Mile 2.46 to 2.48. The LMA does not maintain the levee from Levee Mile 1.38 to 3.39.

#### Photo 1 of 1: SP\_2019\_ST0005\_289\_10\_20190305\_00003.jpg



View of blackberries that are covering landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Spring 2019

#### Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	3.23	Rating **	U	Issue No.		4	
LM End	3.27	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	titud	e/Longitude	
Category				Start		End	
Item	Trim / Thin Trees			39.4700	63 °	39.470558	0
item				-121.609264 °		-121.609215	
DWR ID	DWR_ST0005_01_s _ 2013_4						

#### Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Small trees 4" in diameter at chest height should be removed before they get too big from Levee Mile 3.23 to 3.27. Levee Mile 1.38 to 3.39 has never been maintained by the LMA.



View looking upstream waterside of small trees 4" in diameter at chest height should be removed before they get to big, Spring 2018.

LM Start	3.25	Rating **	М	Issue No.		19
LM End	3.25	Issue Type +	En	Location *		
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory			Start		End	
Item	DWR UC	IP Field Study		39.47026	9°	39.470269°
пеш				-121.60922	9°	-121.609229 °
DWR ID	17044				·	

## Comment Code

#### Inspector Comment

FS\_ID:53941 DS\_ID:17044 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)04/26/2016 Unable to access area near structure.05/14/2013 Same as last inpsection.11/14/2012 Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump station.

FIELD\_STRUCT\_DESC: \*ABANDONED\* [Western Canal Head Gate Inlet Structure] 1 of 2: 96-inch by 96-inch (8-foot by 8-foot) reinforced concrete culverts through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both WS and landside (LS) toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

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#### Photo 1 of 3: UCIP SP 2019 53941 21682.jpg



View of levee crown looking downstream.

## **Levee Inspection Report By Mile - Spring 2019**

#### Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	3.25	Rating **	М	Issue No.		19 (cont)	
LM End	3.25	Issue Type +	En	Location *			
Category	Suppleme	ental		GPS Lat	tud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.47026	9°	39.470269	0
пеш				-121.60922	9°	-121.609229	0
DWR ID	17044						

## Inspector Comment

Comment Code

FS\_ID:53941 DS\_ID:17044 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)04/26/2016 Unable to access area near structure.05/14/2013 Same as last inpsection.11/14/2012 Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump station

FIELD\_STRUCT\_DESC: \*ABANDONED\* [Western Canal Head Gate Inlet Structure] 1 of 2: 96-inch by 96-inch (8-foot by 8-foot) reinforced concrete culverts through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both WS and landside (LS) toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

FS Date: 5/7/2019 12:36:41 PM

LM Start	3.25	Rating **	M	Issue No.	19 (cont)
LM End	3.25	Issue Type +	En	Location *	



View of levee crown at right bend.

### Photo 3 of 3: UCIP\_SP\_2019\_53941\_21680.jpg



View of levee looking upstream.

## **Levee Inspection Report By Mile - Spring 2019**

## Sutter Maintenance Yard Hamilton Bend

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LM Start	3.25	Rating **	М	Issue No.		20	
LM End	3.25	Issue Type +	En	Location *			
Category	Suppleme	ental		GPS Lat	ituc	le/Longitude	
Calegory				Start		End	
Item	DWR UCI	IP Field Study		39.47026	9°	39.470269°	
item				-121.60922	9°	-121.609229 °	
DWR ID	17056						

## Comment Code

#### Inspector Comment

FS\_ID:53942 DS\_ID:17056 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)04/26/2016 Unable to access area near structure.05/14/2013 Same as last inspection.11/14/2012 Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump

FIELD\_STRUCT\_DESC: \*ABANDONED\* [Western Canal Head Gate Inlet Structure] 2 of 2: 72-inch by 96-inch (8-foot by 8-foot) reinforced concrete culvert through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

FS Date: 5/7/2019 12:37:43 PM

LM Start	3.25	Rating **	М	Issue No.	20 (cont)
LM End	3.25	Issue Type +	En	Location *	

# Photo 1 of 3: UCIP\_SP\_2019\_53942\_21697.jpg



View of levee crown looking downstream.

#### Photo 2 of 3: UCIP\_SP\_2019\_53942\_21696.jpg



View of levee crown at a right bend.

## Levee Inspection Report By Mile - Spring 2019

## **Sutter Maintenance Yard Hamilton Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River Hamilton Bend	Right	3.39	04/04/2019 04/04/2019	Sterling York

LN	M Start	3.25	Rating **	M	Issue No.	20 (cont)		
Lſ	M End	3.25	Issue Type +	En	Location *			
C	ategory	Supplemental			GPS Latitude/Longitude			
Ca	alegory		Start		End			
	Item	DWR UC	IP Field Study		39.47026	9°	39.470269	0
item				-121.609229 °		-121.609229	0	
D	WR ID	17056						

#### Comment Code

#### Inspector Comment

FS\_ID:53942 DS\_ID:17056 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 05/07/2019 (O. Magana - DWR UCIP)04/26/2016 Unable to access area near structure.05/14/2013 Same as last inspection.11/14/2012 Abandoned Structure: WS- reminince of gates and concrete standpipe; LS-reminince of concrete headwall and pump station

FIELD\_STRUCT\_DESC: \*ABANDONED\* [Western Canal Head Gate Inlet Structure] 2 of 2: 72-inch by 96-inch (8-foot by 8-foot) reinforced concrete culvert through the levee 25 feet below the crown. Three slide gates on the waterside (WS) end. Concrete stairs on the WS slope. Concrete headwall at both toes. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 152, March 1957 (Station 170+00)]

FS Date: 5/7/2019 12:37:43 PM

## Photo 3 of 3: UCIP\_SP\_2019\_53942\_21695.jpg



View of levee crown looking upstream at crossing.